

# MULTI OUTPUT ELECTRONIC PRESSURE SWITCH



## PSW3000 Series

Starts at  
**\$715**



- ✓ 4 Switching Outputs Plus 1 Analog Output
- ✓ High Accuracy with Adjustable Deadband Individually Settable
- ✓ Easy to Read LCD with Scalable Bar Graph
- ✓ Capable of Switching Both AC and DC
- ✓ Fully Configurable Via Keypad
- ✓ Internal Stainless Steel Diaphragm

### Applications

- ✓ OEM Applications in Hydraulics and Pneumatics
- ✓ Test Bench
- ✓ Industrial Machinery

### Specifications

**Accuracy:** 0.5% FS  
**Linearity Error:**  $\pm 0.5\%$  FS at 25°C (77°F)  
**Repeatability:**  $\pm 0.1\%$  FS  
**Sensor Element:** Piezoresistive silicon measuring cell  
**Wetted Parts:**  
**Housing:** 304 SS  
**Seals:** Cast aluminum, FKM  
**Keypad:** Polyester Film  
**Process Connection:** ¼ FNPT, G ¼ F optional  
**Electrical Connection:** Plug-in, terminal strip with 14 slots for 14 AWG



PSW3000-150, \$715, shown actual size.

**Power Supply:** 18 to 32 Vdc, reversed polarity protected

**A/D Converter:**

**Resolution:** 12 bit (4096 steps per span)

**Scanning Rate:** 1000/sec

**Time Constant:** Approx 40 sec

**Analog Output**

**Current Output:** 4 to 20 mA

**Load:** Max RI = 600  $\Omega$  at 24 Vdc excitation

**Load Influence:** 0.3%/100  $\Omega$

**Scanning Rate:** 1 msec

**Voltage Output:** 0 to 10 Vdc

**Rating:** Max 10 mA, short circuit-proof

**Adjustment Range:**

25 to 100% FS

**Switching Outputs**

**Switching Function:**

Normally open/normally closed, analog output, standard/windows mode

**Contact Rating:** Max 120 Vdc/250 Vac, max 12 W/1250 VA

**Cycles:** 1 million @ 24 Vdc/2 A

**Switching Rate:** Max 20/s

**Delay:** 0.0 to 9.9 sec adjustable

**Operation Time:** 1 msec

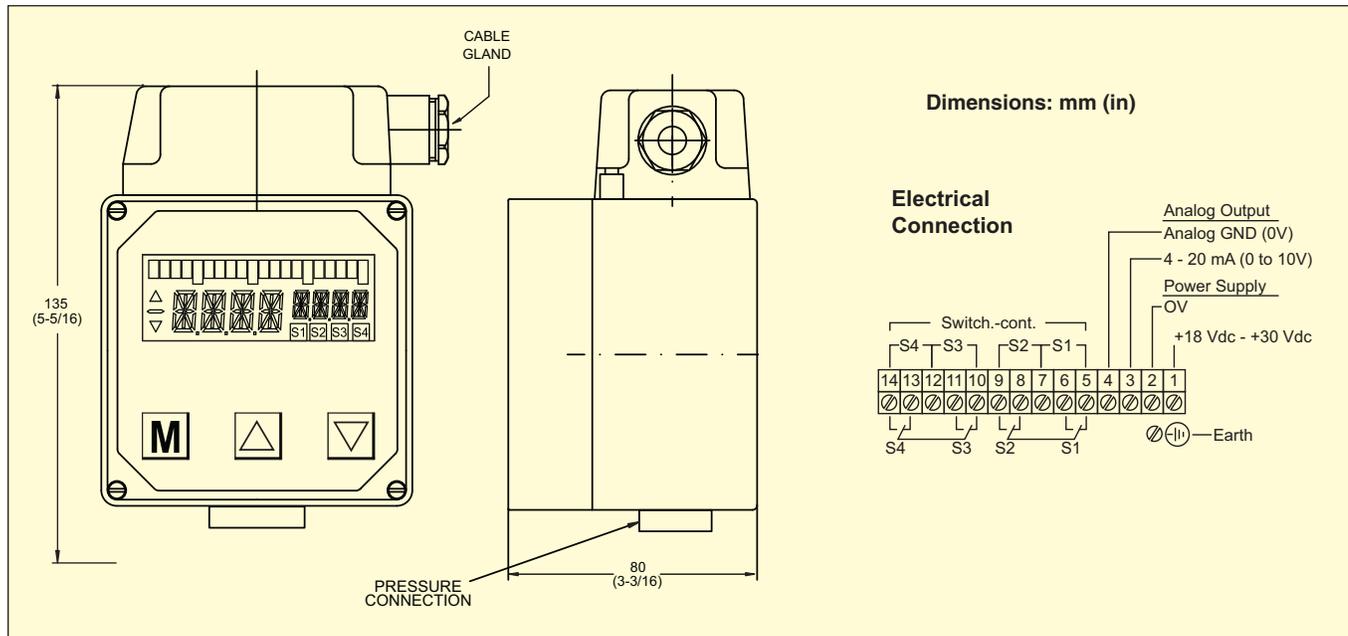
**Status Display:** S1 to S4 on LCD

**Digital Display**

**Display Height:** Green, 8-digit, 14-segment LCD, 12.7 mm (0.5")



# MULTI OUTPUT ELECTRONIC PRESSURE SWITCH



**MOST POPULAR MODELS HIGHLIGHTED!**

## To Order (Specify Model Number)

MODEL NO.	PRICE	STANDARD	METRIC
<b>FOUR SWITCHES, 1/4 FNPT FITTING</b>			
PSW3000-150	\$715	0 to 150 psig	0 to 10 bar
PSW3000-750	715	0 to 750 psig	0 to 50 bar
PSW3000-1.5K	715	0 to 1500 psig	0 to 100 bar
PSW3000-3K	715	0 to 3000 psig	0 to 200 bar
PSW3000-6K	715	0 to 6000 psig	0 to 400 bar
PSW3000-9K	755	0 to 9000 psig	0 to 600 bar
<b>FOUR SWITCHES PLUS 4 to 20 mA ANALOG OUTPUT, 1/4 FNPT FITTING</b>			
PSW3000-150-I	\$750	0 to 150 psig	0 to 10 bar
PSW3000-750-I	750	0 to 750 psig	0 to 50 bar
PSW3000-1.5K-I	750	0 to 1500 psig	0 to 100 bar
PSW3000-3K-I	750	0 to 3000 psig	0 to 200 bar
PSW3000-6K-I	750	0 to 6000 psig	0 to 400 bar
PSW3000-9K-I	790	0 to 9000 psig	0 to 600 bar
<b>FOUR SWITCHES PLUS 0 to 10 Vdc ANALOG OUTPUT, 1/4 FNPT FITTING</b>			
PSW3000-150-V	\$775	0 to 150 psig	0 to 10 bar
PSW3000-750-V	775	0 to 750 psig	0 to 50 bar
PSW3000-1.5K-V	775	0 to 1500 psig	0 to 100 bar
PSW3000-3K-V	775	0 to 3000 psig	0 to 200 bar
PSW3000-6K-V	775	0 to 6000 psig	0 to 400 bar
PSW3000-9K-V	820	0 to 9000 psig	0 to 600 bar

**Bargraph:** 20-segments

**Trend Arrows:** Last value change

**Display Range:** -9999 to 9999

**Display Rate:** 4 per sec

**Display Units:** Bar, psi, psi x 10, hPa, mbar

**Operating Elements:** Keypad with easy response push buttons

**Temperature Range:**

**Media:** -25 to 100°C (-13 to 212°F)

**Electronics:** -10 to 70°C (14 to 158°F)

**Storage:** -30 to 80°C (-22 to 176°F)

**Compensated Temperature Range:** -10 to 70°C (14 to 158°F)

**Power Consumption:** Approx 350 mA @ 24 Vdc (without load)

**Protection Class:** IP65

**Dimensions:** 100 W x 135 H x 80 mm D (3.9 x 5.3 x 3.1")

**Cable Gland:** 1 x PG 13.5 side entry

**Additional Features:** Microcontroller, self monitoring, all parameters are configured by keypad, selective keypad lock

**Weight:** Approx 32 oz (2 lb)

See Section Y for a Selection of Scientific, Technical, and Reference Books Available from [omega.com](http://omega.com)

Comes complete with connector and operator's manual.

To order switch with G 1/4 female metric pressure fitting change model number from PSW3000 to PSW3001. No additional charge for metric fitting.

**Ordering Examples:** PSW3000-150-I, pressure switch, 0 to 10 bar (0 to 150 psig) pressure range, 4 switching outputs and 4 to 20 mA analog output, \$750.

PSW3000-3K-V, pressure switch, 0 to 200 bar (0 to 3000 psig) pressure range, 4 switching output and 0 to 10 Vdc analog output, \$775.

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